

INTERNATIONAL SEARCH REPORT

In **International Application No**
PCT/FI2004/000668

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B66B1/44 B66B1/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B66B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 278554 A (MITSUBISHI ELECTRIC CORP), 10 October 2001 (2001-10-10) abstract -----	1-12
A	US 4 030 007 A (PRICE ET AL) 14 June 1977 (1977-06-14) the whole document -----	1-12
A	US 3 842 329 A (MIERENDORF R,US) 15 October 1974 (1974-10-15) the whole document -----	1-12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- °A° document defining the general state of the art which is not considered to be of particular relevance
- °E° earlier document but published on or after the International filing date
- °L° document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- °O° document referring to an oral disclosure, use, exhibition or other means
- °P° document published prior to the International filing date but later than the priority date claimed

- °T° later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- °X° document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- °Y° document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- °&° document member of the same patent family

Date of the actual completion of the International search

3 May 2005

Date of mailing of the International search report

19/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Trimarchi, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI2004/000668

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
JP 2001278554	A 10-10-2001	NONE		
US 4030007	A 14-06-1977	BR 7605504 A 16-08-1977	CA 1062383 A1 11-09-1979	JP 52027514 A 01-03-1977
US 3842329	A 15-10-1974	DE 2452676 A1 15-05-1975	JP 50079672 A 28-06-1975	